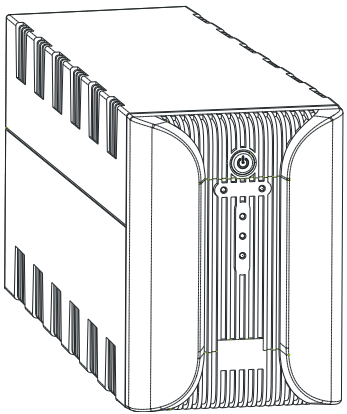
User's Manual



AURORA 1.2K/2.2K

Uninterruptible Power System

Safety – CAUTION

- This UPS utilizes voltages that may be hazardous. Do not attempt to disassemble the unit. The unit contains no user serviceable parts. Only factory service personnel may perform repairs.
- Internal battery voltage is 24Vdc. Sealed, lead-acid, 6 cells battery two pcs.
- Connection to any other type of receptacle other than a two-pole, three-wire grounded receptacle may result in shock hazard as well as violate local electrical codes.
- In the event of an emergency, press the OFF button and disconnect the power cord from the AC power supply to properly disable the UPS.
- Do not allow liquids or any foreign object to enter the UPS. Do not place beverages or any other liquid-containing vessels on or near the unit.
- This unit intended for installation in a controlled environment (temperature controlled, indoor area free of conductive contaminants). Avoid installing the UPS in locations where there is standing or running water, or excessive humidity.
- Do not plug the UPS input into its own output.
- Do not attach a power strip or surge suppressor to the UPS.
- Do not attach non-computer-related items, such as medical equipment, life-support equipment, microwave ovens, or vacuum cleaners to UPS
- To reduce the risk of overheating the UPS, do not cover the UPS' cooling vents and avoid exposing the unit to direct sunlight or installing the unit near heat emitting appliances such as space heaters or furnaces.
- Unplug the UPS prior to cleaning and do not use liquid or spray detergent.
- Do not dispose of batteries in a fire as they may explode.
- Do not open or mutilate the battery or batteries. Released electrolyte is harmful to the skin and eyes. It may be toxic.
- A battery can present a risk of electrical shock and high short circuit current. The following precautions should be observed when working on batteries:
  1) Remove watches, rings, or other metal objects from the hands.
  2) Use tools with insulated handles.
  3) Wear rubber gloves and boots.

4) Do not lay tools or metal parts on top of batteries.
5) Disconnect charging source prior to connecting or disconnecting batteries terminals.

- Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the required precautions. Keep unauthorized personnel away from batteries.
- When replacing batteries, replace with the same number and type of sealed lead-acid battery. The maximum ambient temperature rating is 40℃.
- This pluggable type A equipment with battery already installed by the supplier is operator installable and may be operated by laymen.
- During the installation of this equipment it should be assured that the sum of the leakage currents of the UPS and the connected loads does not exceed 3.5mA.
- Attention, hazardous through electric shock. Also with disconnection of this unit from the mains, hazardous voltage still may be accessible through supply from battery. The battery supply should be therefore disconnected in the plus and minus pole of the battery when maintenance or service work inside the UPS is necessary.
- The mains socket outlet that supplies the UPS shall be installed near the UPS and shall be easily accessible.

INTRODUCTION

This UPS is specially designed for Personal Computer with multi-functions. Its light weight, compact design perfect fits to the limited working environment. The line of UPS is equipped with boost and buck AVR to stabilize input voltage range. It is also built-in with DC start function. This function enables the UPS to be started up without AC power supplied. Although it's a small UPS, The main features of Aurora UPS are listed below:

- Microprocessor control guarantees high reliability.
- Equipped with Boost and Buck AVR.
- Green Power Function for energy saving.
- DC Start Function.
- Auto restart while AC recovery.
- Compact size, Light Weight.
- Provides AC Overload protection.

TROUBLE SHOOTING

Symptom	Possible Cause	Remedy
No LED display on the front panel.	1. Battery weak.	1. Charge battery up to 8 hours.
	2. Battery defect.	2. Replace with the same type of battery.
	3. Power switch is not pressed.	3. Press the power switch again.
Alarm buzzer beeps continuously when AC supply is normal.	Overload of the UPS.	Verify that the load matches the UPS capability specified in the specs.
When power failure, back-up time is shorten.	1. Overload of the UPS.	1. Remove some non-critical load.
	2. Battery voltage is too low.	2. Charge battery 8 hours or more.
	3. Battery defect due to high temperature operation environment, or improper operation to battery.	3. Replace with the same type of battery.
Mains normal but LED is flashing.	Power cord is loose.	Reconnect the power cord properly.

If any abnormal situations occur that are not listed above, please call service people immediately.

SYSTEM DESCRIPTION

Front panel:

1.Power Switch

2.LED Indicators –

AC Mode: Green lighting

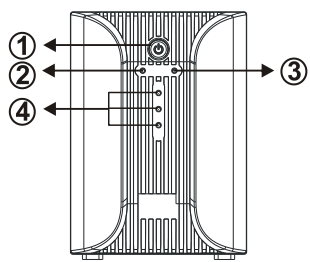
Battery Mode: Green flashing

3.Fault LED

4. LED Indicators –

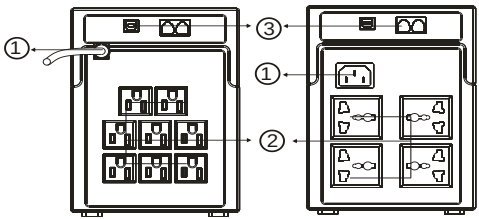
AC Mode: Load Level LEDs

Battery Mode: Battery Capacity LEDs



Back Panel

1. AC input
2. Output receptacles
3. USB & RJ45 communication

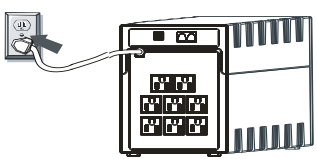


1. Inspection

Remove the UPS from its packaging and inspect it for damage that may have occurred during shipping. If any damage is discovered, repack the unit and return it to the place of purchase.

2. Charging

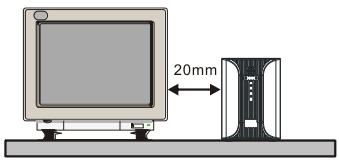
This unit is shipped from the factory with its internal battery fully charged, however, some charge may be lost during shipping and the battery should be recharged prior to use. Turn on the UPS, Plug the unit into an appropriate power supply and allow the UPS to charge fully by leaving it plugged in for at least 6 hours with no load (no electrical devices such as computers, monitors, etc.) connected.



3. Placement

Install the UPS unit in any protected environment that provides adequate airflow around the unit, and is free from excessive dust, corrosive fumes and conductive contaminants. Do not operate your UPS in an environment where the ambient temperature or humidity is high.

On the other hand, place the UPS away from the monitor at least 20cm to avoid interference.

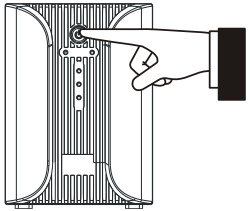


4. Connection

Plug the UPS into a 2-pole, 3-wire grounded receptacle. Then connect one computer-related device into each of the power receptacles supplied on the back of the UPS.

5. Turn On/Off

To turn on the UPS unit, press the power switch lightly. To turn off the UPS unit, press the power switch again.

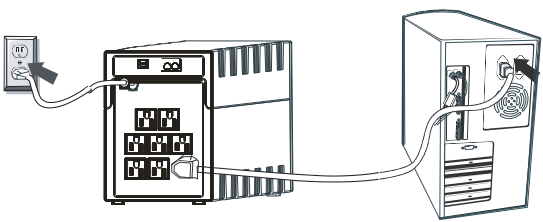


6. DC Start

All Aurora Series are equipped with DC Start. To start the UPS when AC utility power is not available, simply press the power switch.

7. Green Power Function

All Aurora UPS is equipped with Green Power Function. For saving power and protecting battery, the method of deep discharging protection is adopted on inverter mode.



SPECIFICATION

MODEL			AURO 1200/2200	
CAPACITY	VA/W		1200VA/600W	2200VA/1100W
INPUT	Voltage		120VAC or 230VAC	
	Voltage Range		85-145VAC or 170-280VAC	
OUTPUT	Voltage		110/120VAC or 220/230/240VAC	
	Voltage Regulation (Batt. Mode)		+/-10%	
	Frequency		50Hz or 60Hz	
	Frequency Regulation (Batt. Mode)		+/-1 Hz	
	Output Waveform		Modified Sine wave	
BATTERY	Battery Type		12V7Ah x 2	12V/9Ah x 2
	Recharge Time		6 hours to 90% after complete discharge	
TRANSFER TIME	Typical		4-8 ms	
INDICATOR	AC Mode	Green lighting	The 4st Green Led Lighting.	
			Optional -- (The 1st to 3th green Led lighting to indicate load level)	
			LED1 (green): >66% load level.	
			LED2 (green): >33% load level.	
			LED3 (green): >0% load level.	
	Backup Mode	Green flashing	The 4st green blinking.	
			Optional -- (The 1st to 3th green Led lighting to indicate battery capacity)	
			LED1 (green): battery voltage > 12.5V.	
			LED2 (green): battery voltage > 11.5V.	
			LED3 (green): battery voltage > 10.5V.	
AUDIBLE ALARM	Backup Mode		Sounding every 10 seconds	
	Low Battery		Sounding every 1second	
	Overload		Sounding every 0.5 second	
	Fault		Continuously sounding	
PROTECTION	Full Protection		Discharge, overcharge, and overload protection	
PHYSICAL	Dimension (mm), DXWXH		365(L)x139(W)x195(H)	
WEIGHT	Net Weight		8.6kgs	10.2kgs
ENVIRONMENT	Operating Environment		0°C - 40°C	
	Noise Level		Less than 40dB	